Lower Delaware Water Quality Monitoring Program QAPP DRBC QA2003-001 / July 2003 Revision: 02-GDS Page 24 of 33

## **Appendix A**

### Figure 1. Example of Calibration Logbook Field Sheet

Hydrolab Quanta C	Calibration Sheet  Time:
DO Percentage  *Air Calibration	e Calibration Final Value Initials
Air Temperature:	Y or N
DO Concentration (mg/L)	
Water Temperature:	ue Calibration Final Value Initials
DO (mg/L):	Y or N
	ler Titrations
1	
3.	
Comments:	
pH Calibration (2pt)	
7.0 Buffer:	ue Calibration Final Value Initials Y or N
4.0 Buffer:	Y or N
	Y or N
10.0 Buffer:*anticipated va	Y or N
Comments:	
Specific Conductance (84 µS/cm S	Standard)
Specific Conductivity:	<u>Calibration</u> Final Value Initials Y or N
Temperature:	
Comments:	
Tubidity ( 2pt, 4000 NTU Stock) *dilution created using 1mL stock a	and 99mL water
	Y or N Final Value Initials
40 NTU Standard:	Y or N
Comments:	

Figure 2. Example of Equipment Logbook Sheet

# Equipment Service Log

Date	Initials	Service	Comments

Figure 3. Example of New Jersey Analytical Laboratory Result Reporting Format

Sample Information

Lab ID: Date Sampled:
Site No. Time Sampled:
Location: Date Received:

Parameter	Result	Detection Limit	Units	Dilution	Method Code	
Total Coliform		4	Colonies/100 ml	4	SM 9222 B	
E. Coli		4	Colonies/100 ml	4	SM 9222 B	
Fecal Coliform		4	Colonies/100 ml	4	SM 9222 D	
Enterococcus		4	Colonies/100 ml	4	SM 9230 C	
Chlorophyll		1.0	mg/m <sup>3</sup>	NA	SM 10200 I	
Ammonia as NH3-N		0.05	mg/L	1	EPA 350.3	
Total Kjeldahl Nitrogen		0.05	mg/L	1	EPA 351.3	
Nitrite as N		0.02	mg/L	1	EPA 300.0	
Nitrate as N		0.02	mg/L	1	EPA 300.0	
Chloride		0.10	mg/L	1	EPA 300.0	
Ortho-Phosphate		0.01	mg/L	1	EPA 365.2	
Phosphorus, total as P		0.02	mg/L	1	EPA 365.2	
Turbidity		0.5	NTU	1	EPA 180.1	
Alkalinity as CaCO3		1.0	mg/L	1	EPA 310.1	
Hardness, total as CaCO3		1.0	mg/L	1	EPA 130.2	
Total Suspended Solids		0.5	mg/L	1	EPA 160.2	
Total Dissolved Solids		6.0	mg/L	1	EPA 160.1	

Collection Method:

ND:Not Detected above Detection Limit

New Jersey Analytical Laboratories

NA:Not Applicable

George Latham Date Laboratory Director

Laboratory ID # 11005

Precision testing for a cleaner environment.

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#### LOWER DELAWARE MONITORING PROGRAM CHAIN-OF-CUSTODY RECORD

Page: 1 of 1 Agency: Delaware River Basin Commission Project Manager: Robert L. Limbeck Address & Phone: PO Box 7360, W. Trenton NJ 08628 609-883-9500 x 230 Project: Lower Delaware Cooperative Monitoring Collect. Method Sample Date Collected Time Collected Type (see ation (see (Grab / Log Number (YYYYMMDD) (Mil. HHMM) Site No. Location below) below) Composite) (Seq+) Sampled by (signature): Received by (signature): Date Time Received by (signature): Date Time Received by (signature): Date Time Date Time Received by (signature):

Received by (signature):

Instructions/Notes:

Each Sample Bag Contains:

1 L Unpreserved = N/N; Alk; Ortho; TDS; TSS

Date

Time

500 ml pH<2 H<sub>2</sub>SO4 = TP; NH<sub>3</sub>; TKN 120 ml sterilized = Fecal Coliform 120 ml sterilized = Enterococci 120 ml sterilized = E. coli & Total Coliform

120 ml pH<2 HNO<sub>3</sub> = Hardness

1 L Amber unpreserved glass = Chlorophyll a (selected sites)

### Instructions:

Record all information concerning samples.

Check log numbers against containers to assure all samples are present, then sign in appropriate spaces.

Keep original Chain-of-Custody Record with samples.

Person relinguishing samples should receive a photocopy of this form. Notify Project Manager immediately of any damaged or missing samples.

Figure 5. Example of Field Measurement/ Observation Data Sheet

Field Me	easurement / Obser	ality Monitoring Proposition Reporting Form	
1.) River Mile (RM/ Trib 1/ Trib 2/			
Station Nan	ne:		
Station Numb	er:		
2.) Date (YYYY/MM/DD) and Tim	e (Military)		<u>:</u>
3.) Dissolved Oxygen	Method:		mg/l
4.) Air Temperature	Method:		°C
5.) Water Temperature	Method:		°c
6.) Specific Conductance	Method:		μmhos/cm
7.) pH	Method:		pH units
8.) Turbidity (in situ)	Method:		NTU
9.) Gage Height	+ measurement	leader	ft.
10.) Weather Conditions:			
B. (			
Dates of Last Rain	1:	and	
11.) Water and Site Conditions:			
	Name	Role	
12.) Personnel			

Figure 6. Example of Tributary Discharge Measurement Sheet

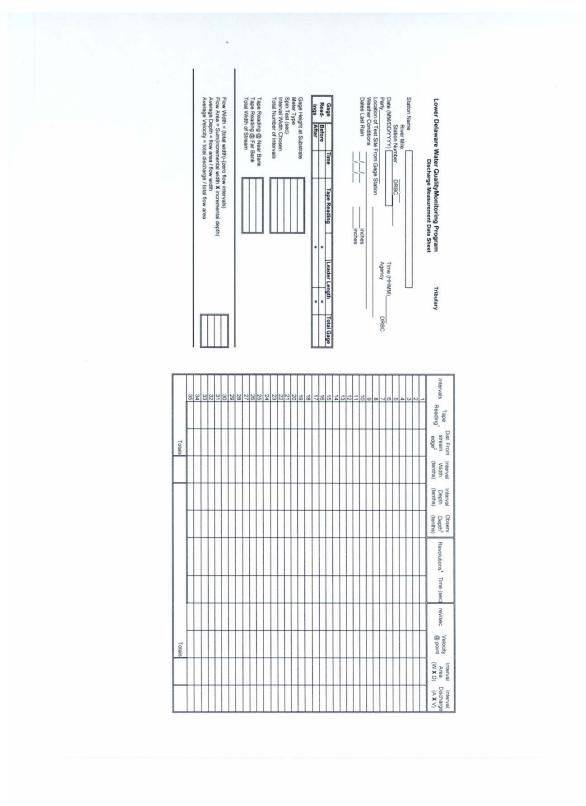


Figure 7. Data Management Format for the Lower Delaware Water Quality Monitoring Program

												Station ID
												Station Visit Start Date
												Visit Comments Activity ID
												Activity ID
												Activity Type
												Medium
												Activity Category
												Field Replicate Number
												Activity Start Date
												Activity Activity Start Date Start Time
												Sample Collection Procedure
												Gear ID

Figure 7. Data Management Format for the Lower Delaware Water Quality Monitoring Program (continued)

												Gear Configuration ID
												Sample Preservation, Transport and Storage
												Characteristic Group ID
												Characteristic Row ID
												Result Value
												Result Comment
												Lab ID
												Quantification Low
												Quantification Quantification Low High
												Detection Limit Value
												Detection Limit Unit
												Station Visit

Figure 8. Matrix of Monitoring Activities associated with the Lower Delaware Water Quality Monitoring Program

